

Product datasheet for **RC206744**

ZNF597 (NM_152457) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF597 (NM_152457) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZNF597
Synonyms:	HIT-4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC206744 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCGTCCATGCCCCGACGCCGAGGCCAGGGACCAATACTGTTGAGGATCTGGCTGTGTATTTTT
CTCAAGAGGAGTGCCTGACTCTGCACCCCTGCCAGAGGTCCCTCAGCAAAGATGGTACAAAAGAGCTTT
GGAGGATGCGGCTTTGATGGGAGAGGAAGGCAAGCCTGAGATTAATCAGCAGTTAAGCCTAGAGTCTATG
GAACCTGACGAGCTTGCCTTAGAAAAAGTACCCATTGCTGCACCCCTTGCCCTTACCCAGAAAAATCCT
CTGAGGATGGAGTTGAAACCCTGAAGCGAAAATATTAAGTGGAACTCCCACTTACAAGAGAAGGTCAT
CAGCCTTTTAGTTACCATTGAAAACACACCCCATAGTAGAACTCTCTGAATTTAGGAACCAACACA
CTTTCTGAAATCTTGATTCTCCCTGGGAAGGAGCCAAAAATGTGTACAAATGCCTGAGTGTGACCAAA
ACTTCAGCGATCATTACCTAGTTTTGCATCAGAAAAATTCATTAGGAGAGAAAAACATAAATGTGG
TGACTGTGAAAGATCTCAATCATAGAGCCAACCTGAGGACACACAGGAGAATCCATACCTGGTGAGAAA
CCTTATAAGTGTGCCAAGTGCAGTGCCAGCTTTGCCAGCACTCTCATCTATCCCGACACATGAATAGCC
ACGTAAAGGAGAAGCCCTATACATGTAGCATATGTGGTAGAGTTTTATGTGGCTCCCAGGATTGGCACA
GCATCAGAAAAGCCACAGTGTGAAAACACCTACGAATCTACTAACTGTGATAAACATTTAATGAGAAA
CCAAATCTTGCTTTGCCTGAGGAAACATTCGTATCAGGCCCCAGTACCAGCACACTAAGTGCATGAAGA
GCTTCAGGCAGTCCTTATACCTGCCCTTTCCGAGAAGAGCCACGACGAGGACTCTGAACGCTGCAGCGA
TGATGGGACAATTTCTTCTCATTCTCAAAATCAAGCCCTTACAGTGTCTGACTGTGACATGACCTTT
CCTTGTCTCTGAGCTTATTTCCATCAGAATTCATACAGAGGAAAGGCCCCATAAGTGCAAAACAT
GCGAGGAAAGTTTTGCTTTGGACTCAGAACTTGCATGCCACCAGAAGGCCACATGCTAGCGAACCTTT
TAAATGTACCGTGTGGGAAAACCTTCAAGTCGAATTTGCATCTCATTACTCATAAGCGAACTCACATA
AAAAACACCACG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC206744 protein sequence
Red=Cloning site Green=Tags(s)

MASMPPTPEAQGPILFEDLAVYFSQEECVTLHPAQRSLSKDGTESLEDAALMGEEGKPEINQQLSLESM
ELDELALALEKYPIAAPLVPYPEKSSSEdGVNPEAKILSGTPTYKRRVISLLVTIENHTPLVELSEYLGNT
LSEILDSPWEGAKNRYKCECDQNFSDHSYLVLHQKIHSGEKKHKCGDCGKIFNHRANLRTHRIHTGK
PYKCAKCSASFQHSLSRHMNSHVKEKPYTCSICGRGFMWLPGLAQHQKSHSAENTYESTNCDKHFNEK
PNLALPEETFVSGPQYQHTKCMKSFQSLYPALSEKSHDEDSERCSDDGDNFFSFSKFKPLQCPDCDMTF
PCFSELISHQNIHTEERPHKCKTCEESFALDSELACHQKSHMLAEPFKCTVCGKTFKSNLHLITHKRTHI
KNTT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6332_f06.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_152457

ORF Size: 1272 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_152457.1](#), [NP_689670.1](#)

RefSeq Size: 1838 bp

RefSeq ORF: 1275 bp

Locus ID: 146434

UniProt ID: [Q96LX8](#)

Cytogenetics: 16p13.3

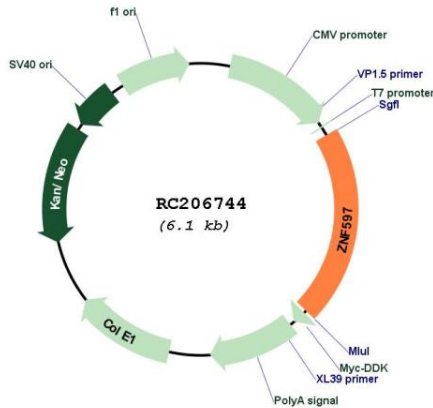
Domains: KRAB, zf-C2H2

Protein Families: Transcription Factors

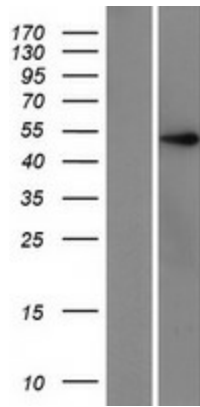
MW: 48.1 kDa

Gene Summary: This gene encodes a protein with multiple zinc finger domains. Loss of the related gene in rodents results in defects in neural development and embryonic lethality in mutant homozygotes. This gene is adjacent to a differentially methylated region (DMR) and is imprinted and maternally expressed. [provided by RefSeq, Nov 2015]

Product images:



Circular map for RC206744



Western blot validation of overexpression lysate (Cat# [LY407517]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206744 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).